



The

GARzette

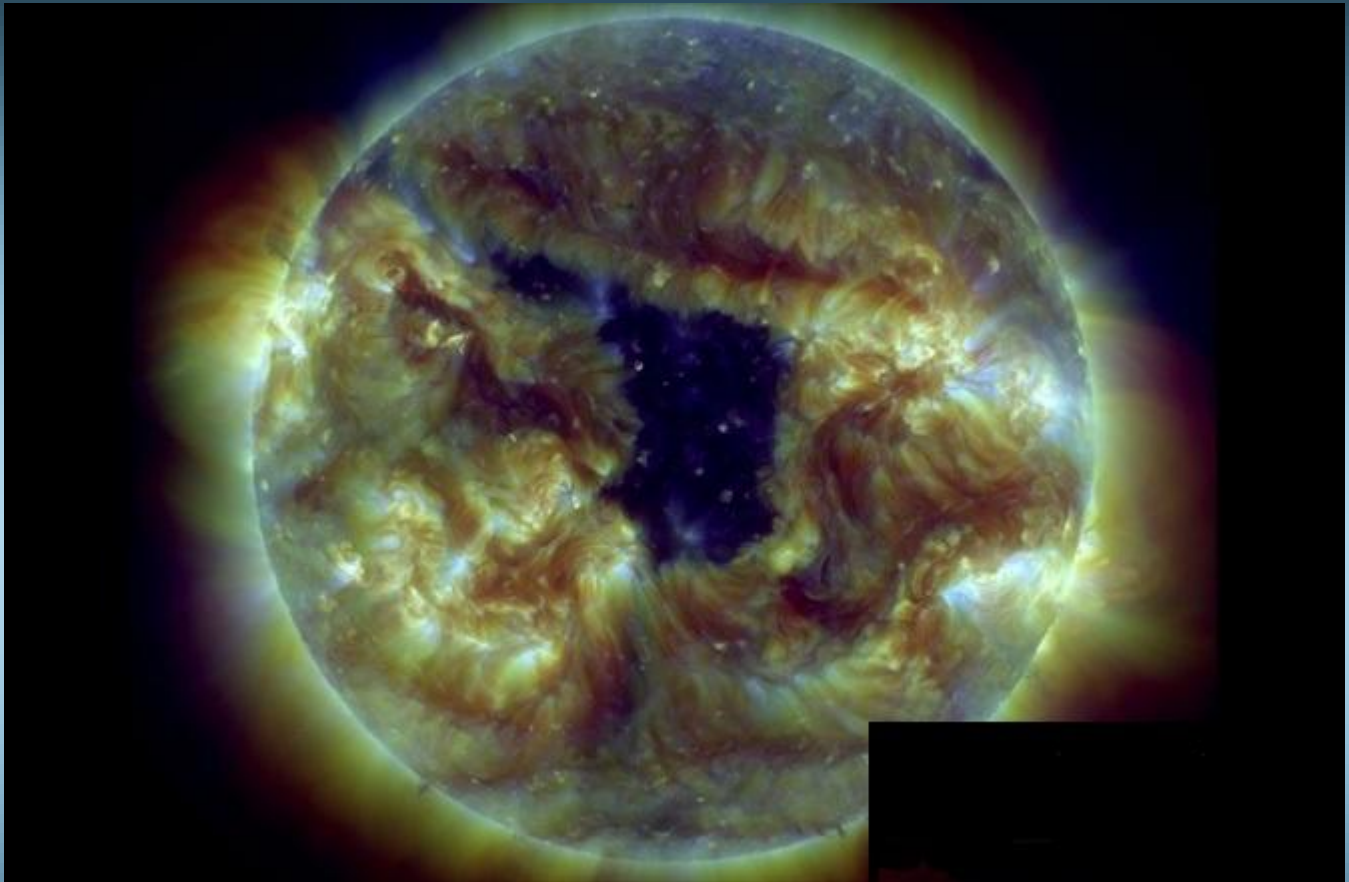
The Official Newsletter of the Gwinnett Amateur Radio Society
August 2013 <http://www.gars.org/> Volume 22, Issue 8



Our Power Source — The Sun

There's a Hole in the Sun!

Jun 3, 2013 12:50 PM ET // by [Ian O'Neill](#) (from Discovery.com)



During the latter part of last week, a huge void rotated across the face of the sun. But never fear, it isn't a sign of the "End Times" or some weird sci-fi stellar malnourishment, this particular hole is a coronal hole. Though it may be a well-known phenomenon, it is noteworthy...

It is the largest coronal hole to be observed in the sun's atmosphere for over a year!

For the REST of the STORY: <http://news.discovery.com/space/astronomy/theres-a-hole-in-the-sun-130603.htm>

For more about the sun, see page 16

Message From The President

We are just a few months away from my favorite meeting of the year, “The Massive Homebrew Show and Tell.” That comes in November, but at *this* month's GARS meeting, we will have another show and tell of sorts. This month we will be testing the GARS Field Day HF antennas, and we will also have members bringing in portable HF antennas to discuss, explain, and show us. Much of the meeting will happen outside. We will knock out the business stuff early, and then get to the educational and fun stuff outside as quickly as we can. For those not interested in doing the outside stuff, we plan to play some DVDs about DXing on the projector inside. To top the event off, the great folks from NFARL will be serving us ice cream as our reward for making the most digital contacts at Field Day 2013.



Kyle Albritton—W4KDA

On a different note, to pay for some of the fun things we enjoy doing as a club, GARS and Gwinnett ARES oversee the parking at “The Dog Show”. Investing a few hours of your time keeps us from having to do other fund raisers like car washes or selling donuts. We need your help on Thursday, Friday, Saturday, or Sunday for a 4 hour shift. You do not need a radio, but the event is more fun if you bring an HT. To sign up for a shift by seeing Joel, W4JOL, at our next meeting, or contacting him at w4jol@arrl.net. It is a lot of fun! So sign up and we will look forward to seeing you helping out the club at The Dog Show!

Let me close on a very important note. I am having an incalculable amount of fulfilling fun with GARS, and I sincerely hope you are too. Several of us feel that for the good of the club it is time for some role changes and fresh leadership. None of us are going away, but I understand several of us plan to either swap positions or step down. A bit of a shake up should be a good thing. To be in GARS leadership you do not need the wisdom of Solomon or the patience of Job (although it certainly would not hurt). No, what you need is a love for the organization, its members, and its practices. It is easy to say “I like to, but I can't.” I am excited to be working with those members who will stand up and say, “I will.”

The August meeting should be interesting, educational, and fun. I look forward to seeing all of you at the upcoming there.

As always, may you have great health, wealth, and all your contacts be 59,

Kyle, W4KDA



GARS August Meeting

Testing FD Antennas

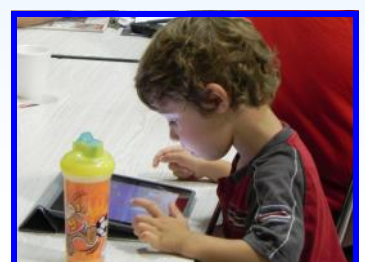
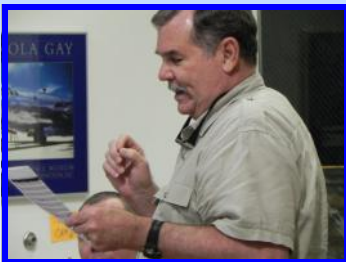
Portable Antenna Show and Tell

Ice Cream by NFARL

Meetings are held on the 2nd Tuesday of each month at 7pm.
(except December)

Sports Aviation Complex - Hangar 1
690 Airport Road
Lawrenceville, GA 30045
[Directions](#)

Pictures from GARS July Meeting



Another Newsletter To Enjoy (partial)

Remote Ham RADIO

[WEBSITE](#) [FAQ](#) [INQUIRE/PRICE](#) [HOW IT WORKS](#) [MEMBER LOGIN](#) [LIVE RADIO!](#)

Dear W4JS, Another month and another super station is added to the RHR network. While sitting at the RNO airport writing this newsletter still soaking in the station of W7RN. Tom K5RC exceeded our expectations in the station he and his crew engineered along with extremely generous hospitality, truly a positive weekend.

West Coast US W7RN is [HERE!](#)

On the air!

W2RE, WW2DX and WW1X all met up at the home QTH of Contest Hall of Fame inductee Tom K5RC in Virginia City, NV. Careful planning and coordination between Tom and RHR we had successfully shipped all necessary equipment to the station ahead of time. The RHR crew arrived and quickly started integrating and setting up all the infrastructure to incorporate this super station into our already amazing network. With the addition of W7RN we now have a dominating presence on both coasts as well as Europe.



Panoramic View of Station with Forest Fire Smoke



3 over 3 on 80m (Left)

One of the most unique qualities of the station is the amazing rotating stack of Optibeam OB3-80's at 175 and 80. The immediate drop offs in from this QTH really play to the advantage of the stack. The monstrous size of the 80m Yagi's make the 6/6/6/6 15m stacks look like 6m yagi's.

Drop Off (Right) Here you can see the immediate drop off looking to JA. This is also the case looking to EU



Another Newsletter To Enjoy (cont.)

(Continued from page 4)



Rotating W7RN



W7RN Comstock Memorial Contest Station

http://www.remotehamradio.com/?utm_source=July+2013+RHR+Newsletter&utm_campaign=JULY2013&utm_medium=email

NTSD Primer

NATIONAL TRAFFIC SYSTEM—DIGITAL
WA4ZXV

Provided by Norm Schklar—

NTSD consists of a group of fully automated store and forward bulletin board type systems known as Mail Box Operations (MBO) or hubs operating on HF using high speed Pactor 3 protocols on a 24/7 basis moving formal message traffic. The goal of NTSD is to move that traffic via digital means to the closest point of delivery at which point it is then removed from the automated system by operators known as Digital Relay Stations (DRS). The DRS then take this traffic to the manual NTS system via the nets at region, section, and local levels for any additional necessary relay and ultimate delivery.

There were a total of 11,088 pieces of message traffic handled by Eastern Area NTSD during June. This was accomplished by 7 automated MBO stations representing NTS areas 1, 2, 3, 4, and 8 and a total of 34 individual Digital Relay Stations reporting at regional, section, or local NTS levels. A similar level of activity for June also existed in both the Central and Pacific Areas of NTSD.

Additional progress continues on the International/European NTS Digital initiative. Both Peter DL4FN in Germany and Greg G0DUB in the United Kingdom were appointed as NTS Digital Relay Stations. Peter DL4FN has continued with his amateur to amateur message, handling a total of 1086 received and sent during the month.

And despite my report that Jerry KD8CYK was leaving us, he has managed to continue his participation in NTSD as a Michigan Digital Relay Station at a lower level during June with a total digital traffic count of 43. Jerry thanks for hanging in there.

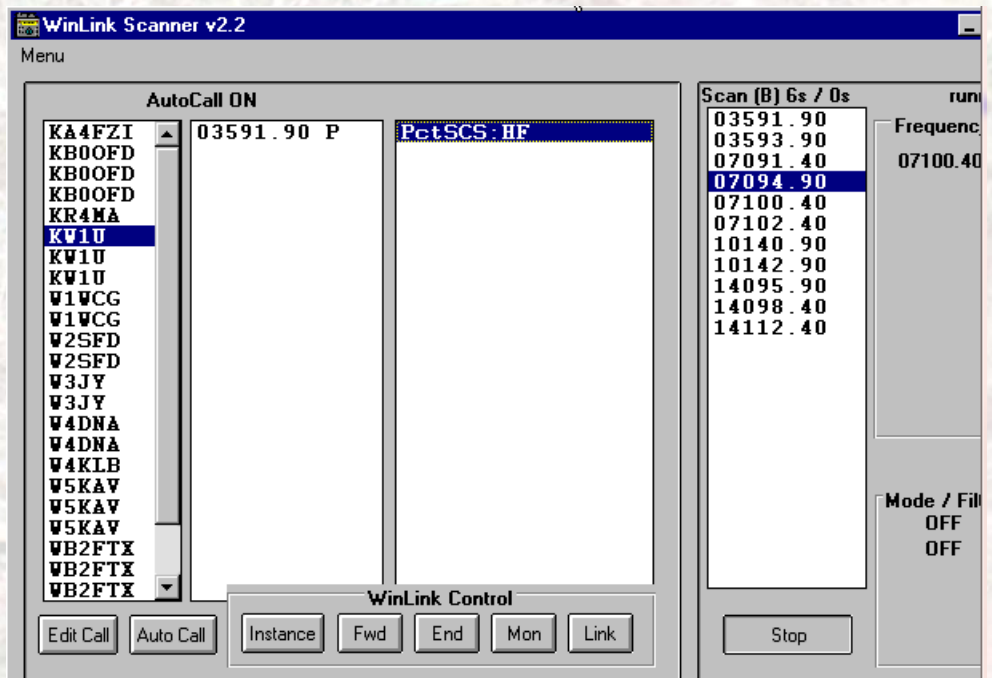
73 Dave WB2FTX
Eastern Area Digital Coordinator
National Traffic System Digital

Norm Schklar writes:

Here is an image of my scanner screen. I scan the frequencies listed. I call the stations on the left when I have traffic for them. Some are listed more than once because I call them on different bands until I get them. I turn it off during nets and contests. Hard to operate two stations on the same band. Remembering to turn it back on is the problem.

Norm Schklar

A typical digital report is shown on the next page...



NTSD Primer (cont'd)

(Continued from page 6)

Eastern Area NbT S Digital Report June 2013

Station	Rcvd	Sent	TOTAL	Function		Station	Rcvd	Sent	TOTAL	Function	
DF0NTS	543	543	1086	DEU	DRS	W4DNA	387	390	777	4RN	MBO
W1WCG	NO	REPORT	0	1RN	MBO	WX4J	61	58	119	4RN	MBO
KW1U	1267	1092	2359	1RN	MBO	WA4ZXV	208	210	418	4RN	MBO
N1JX	1	16	17	NJ	DRS	N8RAK	20	18	38	OH	DRS
N1UMJ	75	14	89	1RN	DRS	KD8HSV	NO	ACTIVITY	0	OH	DRS
WA1MXT	54	4	58	NH/VT	DRS	WA3EZN	82	36	118	8RN	DRS
NM1K	129	121	250	1RN	DRS	W8DJG	24	14	38	8RN	DRS
N2GS	NO	REPORT	0	NJ	DRS	N8FVM	53	20	73	MI	DRS
WB2FTX	1845	1807	3652	2RN/8RN	MBO	WD8USA	30	0	30	MI	DRS
W2SFD	NO	ACTIVITY	0	2RN	MBO	KD8CYK	33	10	43	MI	DRS
N2RHL	3	2	5	NY	DRS	VA3PM	33	30	63	ON	DRS
K2TV	65	27	92	NY	DRS	VE3GT	52	58	110	ON	DRS
N2WKT	54	24	78	NY	DRS	TOTAL		11088			
KT2D	21	60	81	NY	DRS						
WO2H	18	14	32	NY	DRS						
KCOMMY	3	0	3	NY	DRS						
N2HJS	12	2	14	NY	DRS						
KB2WAU	24	0	24	NY	DRS						
W3JY	247	251	498	3RN	MBO						
WA3FIY	39	8	47	WPA							
KB3BAA	13	9	22	EPA	DRS						
WB3FTQ	72	72	144	MDC	DRS						
N3HFC	5	2	7	MDC	DRS						
WA3QPX	NO	REPORT	0	DE	DRS						
N3SW	103	43	146	3RN	DRS						
W4UEF	NO	REPORT	0	NC	DRS						
WK4WC	25	22	47	NC	DRS						
AJ4TH	59	62	121	SC	DRS						
NC3F	4	7	11	FL	DRS						
W4OTN	NO	REPORT	0	VA	DRS						
WB4ZIQ	24	44	68	NC	DRS						
KG4GPJ	0	0	0	NC	DRS						
W4KLB	NO	ACTIVITY	0	SC	DRS						
KA4FZI	79	0	79	FL	DRS						
N9VT	103	119	222	VA	DRS						
KM2V	3	6	9	FL	DRS						
NT4TS	NO	REPORT	0	FL	DRS						
KE4R	NO	REPORT	0	FL	DRS						

To get started, click here:
<http://home.earthlink.net/~bscottmd/start.htm>

ARRL explanation of NTSD:
<http://www.arrl.org/chapter-eight-operation-of-the-digital-system>

NTSD Implementation:
http://home.earthlink.net/~bscottmd/w12k_implement.htm

To get started, click here:

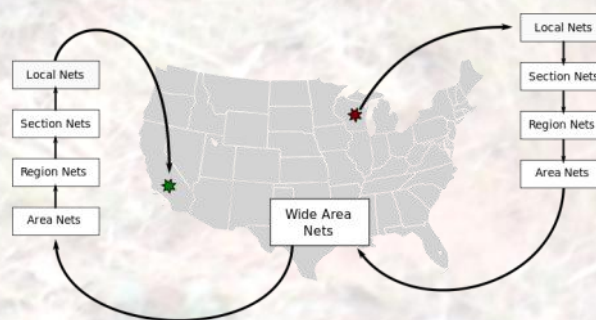
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ARRL explanation of NTSD:

<http://www.arrl.org/chapter-eight-operation-of-the-digital-system>

NTSD Implementation:

http://home.earthlink.net/~bscottmd/wl2k_implement.htm



Contesting

If you are having trouble reading this message, you can see the original at:
<http://www.arrl.org/contests/update/?issue=2013-07-31>



July 31, 2013

Editor: [Ward Silver, NØAX](#)

[Contest Update Archive](#)

[Contest Calendar](#)

[ARRL Home Page](#)

Advertisements have been omitted here...[Editor]

CONTEST SUMMARY

[Complete information](#) for all contests follows the [Conversation](#) section

Aug 3-4

- **ARRL UHF Contest**
- **North American QSO Party--CW**
- NS Weekly Sprint--CW (Aug 2)
- Int'l Lighthouse-Lightship Contest
- TARA Grid Dip Shindig--Digital
- 10-10 Summer Phone QSO Party
- European HF Championship
- South Africa DX SSB Contest--Phone
- OK1WC Memorial Contest (Aug 5)



Aug 10-11

- ◆ Worked All Europe--CW
- ◆ Straight Key Weekend Sprintathon
- ◆ Maryland-DC QSO Party
- ◆ Fall VHF Sprint - 50 MHz
- ◆ NJQRP Skeeter Hunt--CW



Coming September 27 & 28

W4DXCC DX and Contest Convention

W4DXCC IX - September 27 & 28, 2013

Pigeon Forge, TN MainStay Convention Center



Now in its 9th year, the W4DXCC DX and Contest Convention is the Southeast's largest and most highly attended ham radio event. This year W4DXCC IX takes place at the MainStay Suites in Pigeon Forge Tennessee on September 27th and 28th. A full schedule of popular presenters will speak on DX and Contest subjects throughout the convention.

It's About Fellowship



And there's more . . .

- Prize drawings will be conducted between presentations.
- Drinks and snacks are included in the registration cost and will be available throughout the convention.
- Equipment manufacturers will be on hand to demonstrate new products and answer questions face to face.
- A banquet rounds out the day and sets the stage for the grand prize drawings.
- The Ten-Tec Hamfest is Saturday, the 28th starting before the convention. Both hamfest and convention can be attended on Saturday.
- A full range of shopping for the family is located nearby along with water parks, go-cart tracks and Dollywood. Bring the family for a wonderful weekend of fun.
- Check out the WEB site for complete details, program schedule, cost, and housing. We're filling up fast - book early!

www.W4DXCC.com

Ready to take your Exam?

Ham Radio Exams New Licenses and Upgrades

2nd Sunday of Every Month starting promptly at 2:00 p.m.

Primary areas served: Gwinnett County, GA and the surrounding area

Sponsor: Gwinnett Amateur Radio Society (GARS)

Talk-In: GARS Repeater on 147.075(+) MHz, Tone 82.5 Hz

LOCATION:

Gwinnett County Fire Station #5
Community Room
3001 Old Norcross Road
Duluth, GA 30096

Map: <http://maps.google.com/maps?q=33.9566,-84.1078>

WHAT TO BRING:

Bring a Photo ID. (Driver's license, Passport, etc.)

Bring your Social Security card.

Minors without a Photo ID must bring their SS Card and Birth Certificate.

Bring your original license and two (2) copies of the original license.

Bring your original CSCE and two (2) copies for any outstanding elements passed.

Bring a pen and a pencil with eraser.

Calculators with memory must be cleared. Cell phones are not allowed.

Current Exam Fee is \$14.00. Cash only. Checks are not accepted.

Walk-ins are welcome. No pre-registration required.

VEC: W5YI-VEC



VE CONTACTS:

Email: exams@gars.org

CVE - Dave Bruse, W4DTR

Co-CVE - Mark Fehlig, WA6NGC

Co-CVE - Sid Weaver, N4NQ

Co-CVE - Gary Smith II, AK4PT

HamCram Report

We had an excellent exam session Saturday 20 July 13.
14 out of 16 applicants passed.

Ham exam session results:

- 14 new Technicians

Thanks to the VEs who made this exam session possible:

- Dave Bruse	W4DTR (CVE)
- Don Bagby	KK4NJM
- John Davis	WB4QDX
- Mark Fehlig	WA6NGC (Co-CVE)
- Mike Weathers	ND4V
- Karen Whited	KJ4VQI
- Larry Whited	WB4FGF
- Louis Shulman	KJ4DRW
- Norman Schklar	WA4ZXV

Thanks & 73's,

Mark Fehlig, Session CVE

WA6NGC

Email: exams@gars.org

CONTEST CALENDAR de ARRL.ORG

August

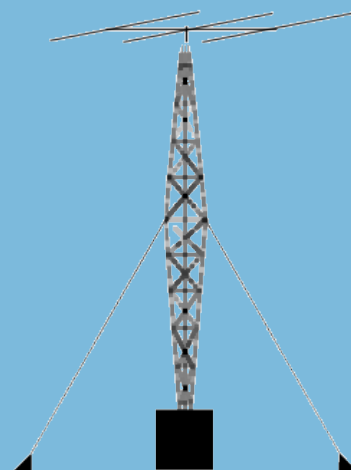
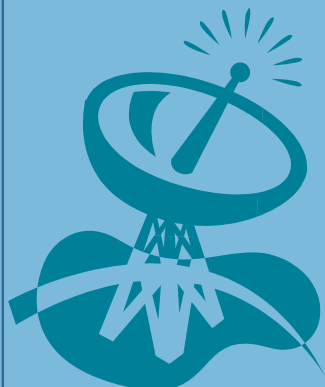
3-4	August UHF Contest
17-18	10 GHz & Up Contest – Round 1
18	Rookie Roundup – RTTY

September

14-16	September VHF
21-22	10 GHz & Up– Round 2
28-29	EME Contest – 2.3 GHz & Up

November

2-4	Nov. Sweepstakes – CW
16-17	EME 50-1296 MHz-Round 2
16-18	Nov. Sweepstakes – Phone



→ Other Contest Calendar: <http://www.hornucopia.com/contestcal/contestcal.html>

NEW

GARS Membership Page

NEW

New GARS Members in June

William Campbell (KK4SGZ)

Michael Lange (K4MDL)

New Members: 2

**Total Members as of August 2, 2013
- 246 -**

Join us for our weekly breakfast gathering at 7:30 AM Most Saturdays at:

Golden Corral
2155 Riverside Parkway
Lawrenceville, GA 30043
([Directions](#))

Also, before our Tuesday meeting you are invited to join other GARS members and guests dining at:

The Flying Machine (starting about 5:30 PM)
510 Briscoe Blvd. NE
Lawrenceville, GA
([Directions](#))

**The following members are
celebrating birthdays
in August:**

HAPPY BIRTHDAY!!
From All of Us at GARS

Dave Adanich (K8WDJ)
Kyle Albritton (W4KDA)
Emory Albritton
Ray Back (KI4GRJ)
Bruce Brown (WA8IQF)
Kent Churchill (KK4RIU)
Stephen Dearman (KI4IXR)
Michael Ford (KK4NZE)
Phillip Gary Greene (WA4TOL)
Paul Hachey (KC4YRV)
David Harden (KJ4CMY)
Rob Hoppe (KI4SBT)
Cory Hughes (KJ4NHS)
Gary Jones (WW4HX)
Doug Kregel (KB6RRX)
Ron Langston (WE5O)
Chris Lee (KI4RSZ)
Carlos Llorca (LU6AFQ)
Louis Manglass III (N4WWU)
Robert Rennier (KK4GLJ)
Lamont Reynolds (KK4QCF)
Earl Whatley (AF4FG)
Lawrence Whited (WB4FGF)
Billy Zeyher (AB4RH)

GARS Membership

To become a GARS member, or to renew your GARS membership, please visit our website—<http://www.gars.org>

To make changes to your GARS membership (moved, new email address, new phone number, etc.), please email the Membership Committee - membership@gars.org

You can **renew or update** your Amateur Radio license information with the FCC at their website for free - <http://wireless.fcc.gov/uls/index.htm?job=home>

To update your ARRL information, please visit their website - <http://www.arrl.org>

Membership Chairman: Rick Cobb, N4XY
Committee Members: Karen Albritton, KI4HPP; Richard Atkin, KJ4ZTY.

NET MANAGERS CORNER

Hello Everyone from N4LNE, GARS Net Manager.

I want to thank everyone for taking the time to check in to the nets and I especially wish to thank the NCS and ANCS stations for their time and effort.

Please think about adding your name to the list as NCS or ANCS.

Monday Night Net Stats

<u>DATE</u>	<u>CHECK INS</u>	<u>NCS</u>	<u>ANCS</u>
07/29/2013	35	Bill KK4AUA	--
07/22/2013	34	John WB4QDX	Phil N4LNE
07/15/2013	27	Hal W4IGE	Phil N4LNE
07/08/2013	26	Ray N4GYN	Bill KK4AUA
07/01/2013	25	Kyle W4KDA	Robert KK3BOB

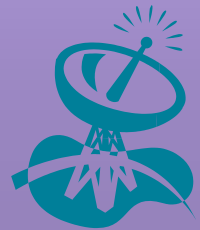
Wednesday Night "Know It All" Net Stats

<u>DATE</u>	<u>CHECK INS</u>	<u>NCS</u>	<u>HOST</u>
07/31/2013	21	Carlton WA4ZUW	Bruce WA8IQF
07/24/2013	15	Jeff AB4HF	John WB4QDX
07/17/2013	20	Jeff AB4HF	Mike ND4V
07/10/2013	20	Jeff AB4HF	Norm WA4ZXV
07/03/2013	12	Jeff AB4HF	Jeff AB4HF

73'

See you on the Nets!

Phil, N4LNE
Net Manager



TOPICS for the "KNOW IT ALL" Net - For August -

August-07	Radios RoundTable
August-14	Antennas—Vertical - vs - Horizontal
August-21	Tube Amplifiers: How do they work? (Ray N4GYN)
August-28	Digital Communications

Everyone is having great fun on this new net! Come join us and become a "KNOW IT ALL".
TIME: 8:30 every Wednesday evening on the GARS repeater - 147.075, PL 82.5

Gwinnett ARES Assists Sheriff's Department Charity Run

There's a new race in town! On July 27th, the Gwinnett Sheriff's Department had its first annual JailBreak Challenge Obstacle Run. It is a 2.5 mile run at the Gwinnett County Jail grounds followed by a trip through a military type obstacle course and then finally the finish line. It is part of their "Beat the Heat" charity that helps educate the community about the consequences of illegal street racing, distracted driving and substance abuse.



Gwinnett ARES had 17 volunteers there to man posts around the race course and provide communications to onsite EMS crews. The ARES Communications trailer was onsite as the event command post and Net Control. We used the 147.045 portable repeater onsite to make sure we had good RF coverage around the event.



A G5RV and HF station were setup for visitors who wanted to try their hand at making a contact. There was also an information table to promote amateur radio, Gwinnett ARES and GARS. The event was very successful. There were a few runners that needed first aid but all in all people just got dirty, tired and had a lot of fun. Thanks to all the ARES volunteers and to the Sheriff's department for letting us help with the event.



Hal Collier - W4IGE

HAMFEST CALENDAR

Southeast US

08/17/2013 | [Alabama State Convention \(Huntsville Hamfest\)](#)

Location: Huntsville, AL

Type: ARRL Convention

Sponsor: Huntsville Hamfest Assn. & Huntsville ARC

Website: <http://hamfest.org>

08/24/2013 | [Southeast ARA's 2nd Annual Hamfest](#)

Location: Swainsboro, GA (165 mi. from L'ville, GA)

Type: ARRL Hamfest

Sponsor: SE Amateur Radio Association

Website: <http://www.kj4mks.com>

10/12/2013 | [Amateur Radio Club of Augusta Hamfest](#)

Location: Blythe, GA

Type: ARRL Hamfest

Sponsor: Amateur Radio Club of Augusta

Website: <http://w4dv.org>

10/19/2013 | [Al Brock Memorial Hamfest/Tailgate](#)

Location: Rome, GA

Type: ARRL Hamfest

Sponsor: Northwest Georgia Amateur Radio Club

Website: <http://w4vo.org>

11/02/2013 | [Georgia Section Convention \(Stone Mountain Hamfest & Computer Expo 2013\)](#)

Location: Lawrenceville, GA

Type: ARRL Convention

Sponsor: Alford Memorial Radio Club

Website: <http://www.stonemountainhamfest.com>

BSA Venture Crew 73 Wants You!

IF YOU are between 14 and 21 years old, enjoy outdoor activities, and have an interest in radio technology,
Venture Crew 73 is for you.

- Venture Crews are part of the Boy Scouts of America.
- *Venture crew 73 is chartered by the Gwinnett Amateur Radio Society.*
- Venture crew 73 is coed.
- *Meetings are on the second Tuesday of the month, 7:00 pm, at EAA 690 Hangar at:
 Briscoe Field - Sports Aviation Complex
 Hangar 1, 690 Airport Road
 Lawrenceville, GA 30045*
- Crew 73 is a youth-run organization, which means that our Crew President and other youth plan the Crew's outings and activities each month.

We enjoy:

- ◊ *Camping*
- ◊ *Hiking*
- ◊ *Horseback Riding*
- ◊ *Shooting Sports*

- Crew activities usually mix high adventure and the use of Amateur Radio.
- For more information, attend our next meeting or contact:

Steve Back, WB2OGY

Venture Crew 73 Committee Chairman

Phone: 770-712-9069

Email: committeechair@venturecrew73.org

Jeff Lee, AF4JL

















Venture Crew 73 Advisor

Phone: 678-475-3165

Email: advisor@venturecrew73.org



GARS Officers and Committee Chairs

Kyle Albritton, President	W4KDA	
Earl Whatley, Vice President	AF4FG	
Hal Collier, Secretary	W4IGE	
Ralph Pickwick, Treasurer, Apparel Manager	KJ4CNC	
Sandy Jackson, Program Manager	KJ4DRO	
Rick Cobb Membership Chairman	N4XYY	
Dave Bruse, VE Team	W4DTR	
David Adcock, Webmaster, Field Day Chairman	KA4KKF	
Dorothy Jubon, Public Information Officer	N2DLJ	
Norm Schklar, TechFest Chairman	WA4ZXV	
Ray Bailey, GARzette Editor	N4GYN	
Jeff Cutchins Multimedia Chairman	AB4HF	
John Ackermann, W4GR Trustee	N8UR	
Eddie Foust, Repeater Chairman	WD4JEM	
Mike Weathers, WAS-Checker, Historian	ND4V	
Phil McCleary, Net Manager, ELMER Chair	N4LNE	
Mike Swiderski, Technical Advisor	K4HBI	

GARS Communications

2 Meter Repeater
 147.075(+) MHz
 82.5 PL Tone

APRS
 144.390 -- 1200 Baud
 W4GR

D-Star
 WD4STR
 145.060 + (1.4 MHz)
 440.550 + (5 MHz)

Main Repeater Site
 Oak Street,
 Lawrenceville

2 Meter Repeater
 147.255(+) MHz
 107.2 PL Tone

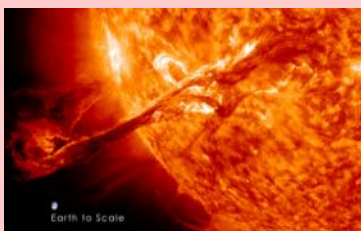
6 Meter Repeater
 53.110 (-1 MHz)
 82.5 PL Tone

70 Cm Repeaters
 444.525(+) MHz
 82.5 PL Tone
 442.100(+)
 82.5 PL Tone

Backup Repeater Site
 Lanier Mountain,

SOLAR Activity at 100 year Low! From Space.com

The sun's peak of solar activity this year will likely be the quietest seen in at least 100 years, say NASA scientists who watch Earth's closest star daily.



Sunspot numbers are low, researchers said, even as [the sun](#) reaches the peak of its 11-year activity cycle. Also, radio waves that are known to indicate high solar activity have been very subdued.

"It's likely to be the lowest solar maximum, as measured by sunspot 'number,' in more than a century," wrote Joe Gurman, a project scientist for NASA's sun-observing mission Stereo, or Solar TERrestrial RELations Observatory. The current sun weather cycle is known as Solar Cycle 24.

For the rest of this story go to:

<http://www.space.com/19131-sun-solar-space-weather-2013.html>

See more at: <http://www.space.com/19131-sun-solar-space-weather-2013.html#sthash.shgh1oXX.dpuf>

GARS Recurring Calendar

- ♦ Monthly club meeting is the 2nd Tuesday of the month at 7pm
- ♦ Every Monday at 8pm: GARS Want, Swap, Sell, and Information Net on the GARS 2-meter repeater
- ♦ Every Thursday at 9pm: GARS Round Table Net, 2 & 6 Meters
- ♦ Every Saturday at 7:30am: GARS Weekly Family Breakfast, Golden Corral Restaurant, Riverside Drive, Lawrenceville

Meeting Minutes for July 9, 2013

- ♦ Kyle Albritton, W4KDA, President, called the meeting to order at 7:04 pm.
- ♦ First time visitors and special guests were recognized.
- ♦ Introductions were made by those present.
- ♦ Ham Cram July 20th results.
- ♦ May Madness contest information
- ♦ GARS is selling reflective vests.
- ♦ Dog Show is August 22-25. Volunteers needed.
- ♦ 13 Colonies Special event was discussed.
- ♦ GARS has a yahoo group for posting club and amateur radio related information.
- ♦ GARS will give a \$1000 donation to the ARRL Scholarship fund.
- ♦ New volunteer needed to bring drinks to GARS events.
- ♦ Know it all net discussed.
- ♦ Kyle called for committee reports:
- ♦ Treasurer's report – presented by treasurer, Ralph Pickwick, KJ4CNC
- ♦ Membership report – available in the *Garzette*.
- ♦ Chaz Cone, W4GKF, did the program "What and How Hamsphere - Virtual Ham Radio".
- ♦ Next month's program is "Field Day Antenna Preparation"
- ♦ 18. Prize drawings were held.

Hal, W4IGE, Secretary

HAM CRAM

A special thanks to another excellent job by the VE Team yesterday, July 20, following the Ham-Cram. After a long day of teaching by Ralph and myself, it was the perfect ending to have the VE Team ready to quickly get the exam in the hands of the students. As usual, the team conducted a professional process for the exam and gave a great introduction to the students to Amateur radio.

GARS can be very proud of the team in place to conduct the exam sessions month after month and in this case, immediately following our class to give students the opportunity to take the test while the info is fresh on their minds.

Great job everyone!

John, WB4QDX



CALENDAR OF EVENTS AUGUST 2013

Mon	Tue	Wed	Thu	Fri	Sat	Sun
29 8:00 pm - 9:00 pm GARS 2m Net	30	31 8:30 pm - 9:30 pm GARS Know-It-All-Net	1	2	3 7:30 am - 9:30 am Breakfast at Golden Corral on Riverside Drive	4
5 8:00 pm - 9:00 pm GARS 2m Net	6 6:30 pm - 8:00 pm GARS Exec Meeting	7 8:30 pm - 9:30 pm GARS Know-It-All-Net	8	9	10 7:30 am - 9:30 am Breakfast at Golden Corral on Riverside Drive	11
12 8:00 pm - 9:00 pm GARS 2m Net	13 5:00 pm - 6:30 pm Dinner at the Flying Machine 7:00 pm - 9:00 pm GARS Meeting	14 8:30 pm - 9:30 pm GARS Know-It-All-Net	15	16	17 7:30 am - 9:30 am Breakfast at Golden Corral on Riverside Drive	18
19 8:00 pm - 9:00 pm GARS 2m Net	20	21 8:30 pm - 9:30 pm GARS Know-It-All-Net	22	23	24 7:30 am - 9:30 am Breakfast at Golden Corral on Riverside Drive	25
26 8:00 pm - 9:00 pm GARS 2m Net	27	28 8:30 pm - 9:30 pm GARS Know-It-All-Net	29	30	31 7:30 am - 9:30 am Breakfast at Golden Corral on Riverside Drive	1

Metro Testing Sessions	Ham Exam Results for July 14, 2013	Metro Club Meetings
<p><i>GARS publishes Metro Atlanta VE exam schedules as a service and is not responsible for errors or changes. Call and confirm schedules before going. All sessions are walk-in. Take copies of current license and certificate of completed elements with you to all sessions. Find additional sessions online at http://www.arrl-ga.org.</i></p> <p>First Sunday, ODD Months 2 pm (Jan, Mar, May, Jul, Sep, & Nov) WCARS VEC Braselton Public Utility Building 4986 Highway 53, Braselton, GA Roger Gibson, WB4T (770) 271-4210 or (770) 712-9560 w4rlg@bellsouth.net</p> <p>First Sunday, EVEN Months 2 pm (Feb, Apr, Jun, Aug, Oct, Dec) WCARS VEC Hall County EOC 470 Crescent Dr. Gainesville, Ga. Perry Roper, KO4RD (770) 536-3056</p> <p>Second Saturday, ODD Months ARRL VEC 8:30 a.m. Stone Mountain Methodist Church 5312 West Mountain St. Stone Mountain Bob Varone, W4ETN (770) 978-3179</p> <p>Second Sunday VEC: W5YI 2 pm Gwinnett County Fire Station #5 3001 Old Norcross Road Duluth, GA 30096 Contact: Dave Bruse, W4DTR Email: exams@gars.org</p> <p>Third Saturday VEC: W5YI 3 pm (Except December) Auburn City Hall Council Room 1369 Fourth Avenue Auburn, GA Steve Donellan, N5SMD (404) 520-0368</p> <p>(cont. next column)</p>	<p>We had an excellent exam session today.</p> <p>3 of 4 applicants passed.</p> <p>Ham exam session results:</p> <ul style="list-style-type: none"> - 1 new Technician - 2 upgraded to General <p>Thanks to the VE's who made this exam session possible:</p> <ul style="list-style-type: none"> - Dave Bruse, W4DTR (CVE) - Don Bagby, KK4NJM - Ralph Pickwick, KJ4CNC - Sid Weaver, N4NQ (Co-CVE) <p>Thanks & 73, <i>Dave Bruse</i>, W4DTR Email: exams@gars.org</p> <p>GARS VE Website: http://groups.yahoo.com/group/ARS_VE_Team/</p>	<p>First Tuesday Kennehoochee ARC Downtown Marietta Fire Station #1, Training Room 112 Haynes Street Marietta, Georgia 30060 Meeting begins at 7:00pm Talk In 146.880(-)</p> <p>First Thursday Atlanta Radio Club Georgia Red Cross HQ 1955 Monroe Dr., Atlanta Meeting is at 7:30pm Talk In -146.820(-) N.E. Georgia ARC Commerce Public Library Meeting is at 6:30pm Talk In - 147.225(+) PL 123.0</p> <p>Second Monday Georgia Tech ARC Room W218 Van Leer Electrical Engineering Bldg. Georgia Tech Campus Meeting at 7:00pm</p> <p>Second Thursday Alford Memorial Radio Club Annistown Road Baptist Church Intersection of Annistown Rd & Spain Rd Stone Mountain Dinner at 6:00pm Meeting at 7:30pm Talk In - 146.760(-)</p>
	<p>Fourth Tuesday ARRL VEC 7 pm @ United Way Service Center 6279 Fairburn Rd., Douglasville Jessie Clower, KB4WFK (770) 942-6466</p> <p>Fourth Sunday 2:30 pm Georgia Tech VanLeer Elec. Building Rm. W218, 777 Atlantic Dr. See www.w4aql.com Alexander G. Carver (404) 894-2936 acarver@ece.gatech.edu</p>	<p>Second Saturday North GA QRP Club Board Room of The Shepherd Center at 2020 Peachtree Rd, NW, Atlanta at 10:00 AM</p> <p>Third Tuesday North Fulton Amateur Radio League Masonic Lodge 194 Milton Avenue Alpharetta, Georgia meeting at 7:30pm Talk In - 145.47(-)</p> <p>For more, go to: http://www.gars.org/</p>

GARS Scholarship Donation



The GARzette

The *GARzette* is the official monthly newsletter of the Gwinnett Amateur Radio Society, serving its members and other persons interested in the advancement of the amateur radio art.

Original articles, art, and photos are invited and encouraged. Previously copyrighted submissions cannot be accepted for reprinting unless permission from the appropriate publisher is provided in writing along with the information being submitted. If reprints are from publications allowing their unrestricted use, please include a copy of the printed permission contained in the publication.

If possible, bring your articles to the monthly meeting in Microsoft Word or rich text (.rtf) or text or HTML format or by email to n4gyn@arrl.net. Artwork can be accepted in most any graphics format and can be submitted via email to the same address. Alternate means of submittal can be arranged when necessary.

In keeping with the amateur radio spirit, permission is hereby granted for the reproduction of The *GARzette* articles by other amateur radio club newsletters provided that proper credit is given to the individual author and *The GARzette*.

The GARzette is published each month with the assistance of Norm Schklar, WA4ZXV who prints copies for distribution at meetings, etc. and Dave Bruse, W4DTR, who distributes the news letter electronically.

Deadline for submissions is the 25th of each month for inclusion in the following month's issue.

For additional information view our Website at: <http://www.gars.org>

Newsletter Editor: Ray Bailey—N4GYN
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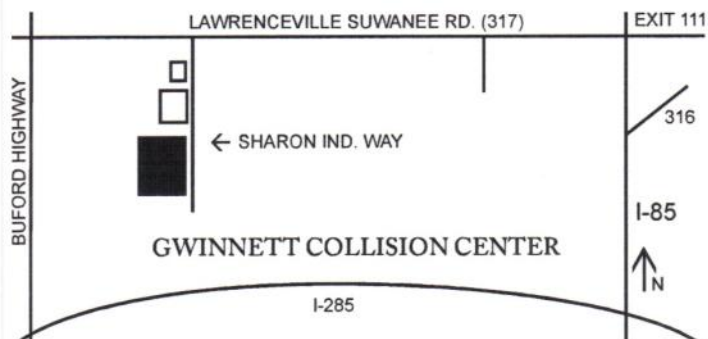
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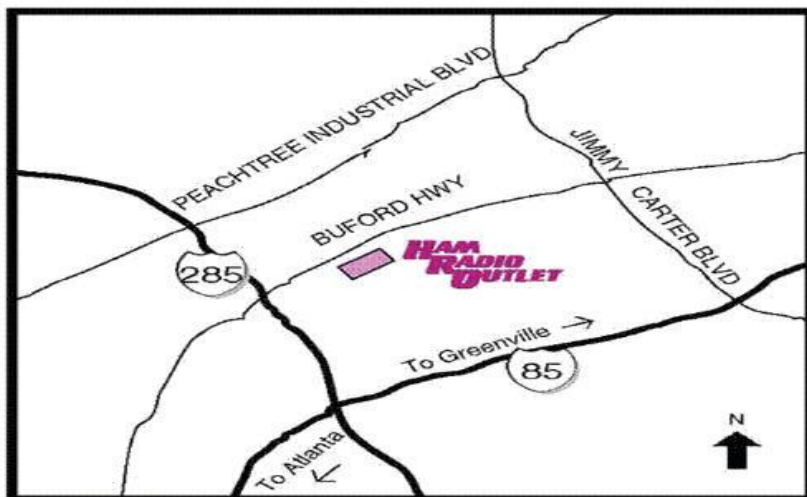
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